25X1

## **Basic Imagery Interpretation Report**



**NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER** 

25X1

# SLONIM VLF RADIO COMMUNICATIONS TRANSMITTER STATION

(SLONIM WEST SLAVE MOON STATION)

25X1

DEPLOYED COMM/ELEC/RADAR FACILITIES USSR **JULY 1969** 

25X1

NSA review completed

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INSTALLATION OR AC		• • • • •			COUNTRY	
	Radio Communications Tr	ransmitter S	tation		UR	
UTM COORDINATES $\mathbf{N}\mathbf{A}$	GEOGRAPHIC COORDINATES 53-07-52N 025-23-34E					25>
MAPREFERENCE ACIC. US_A	ir Target Chart, Series	200, Sheet l	M0168-18HL,	4th ed, Oct	66, scale 1:200,000	
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LATEST IMAGERY USED			NA	1		
		ABSTR	ACT			
Slonim W tion), USS raphy of th This f USSR whi stations. T	acility is one of two MC ich were previously ide the other facility is locate	(Slonim Vonal analys OON (long ntified as d at Zhemk	LF Radio Cosis, location range naviga very low fre	mmunicatio nap, mensu tion aid) sl quency (VI	ns Transmitter Sta- ration, and photog- ave facilities in the LF) communications	25)
similarity In add	lonim facility has been to other known MOON for this facilition to the MOON anter on that probably support	stations a lity. nna, the fac	nd a correla	tion betwee a support	en photography and area and a barrage-	
		INTRODU	ICTION			
tional sys gational at the origina	al MOON system,	3 is a long	-range low fr The	equency (L MOON 3 sy	F) hyperbolic navi- stem, an update of	25)
1960s and and two o	OON system has been provided was known to consist the north and north/south baseline to the north/south baseline to the north south sout	of four slawith a mast es. The no	ave stations, er station loc	two on a recated at the station is at	orth/south baseline intersection of the Pryazha (61-45-35N	25)
	the southern slave These facilities have b	een identifi	ed since the e	early 1960s.		25)
	n was not originally iden ence in its antenna confi					25) 25)
	o the western MOON oth facilities have an L		Zhemkovka	(53-17-18N (		25)
and the no	ire arrays. Similar ballo orthern and southern MO n West Slave MOON Sta	ON slave st	ations. <sup>3</sup>			
miles (nn quite low	n west slave moon sa n) northeast of Slonim, which makes it well su wire fence and contains	USSR. Th	e surroundir signal propa	ng terrain is agation. Th	s relatively flat and	
	Е	BASIC DES	CRIPTION			
Operation	nal Functions					
located LI wire anten		the second	is a balloon	supported p	probable LF vertical	
	F pentagonal array conta y located and the remai				One of these towers pentagonal config-	25>
		- 1 -	-			25×

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uration around it. The central tower is fed by two separate parallel overhead radio frequency (RF) feedlines that originate at the hardened control/transmitter building (item 5, Figure 2, and Table 1). Each of the perimeter towers is fed via a buried cable emanating from the central tower. Small probable tuning buildings have been placed at the base of each tower. Each of the towers has four stories of guying. A circle of 10 equally spaced masts, each high with a chord distance separation of 250 feet, is at a radius of 410 feet from the central tower. The balloon pad (item 6, Figure 2) is immediately west of the hardened control/transmitter building.

The support area, located in the northwestern corner of the facility, contains 24 buildings with a total floorspace of approximately 59,000 square feet.

#### Status and Activity

25X1

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25X1

The Slonim facility was first observed in Although the pentagonal array 25X1 was probably complete on the initial photography, its completed configuration could not be confirmed until when it appeared to be operational.

The pad for the balloon antenna was complete in but the 25X1 balloon was not observed until

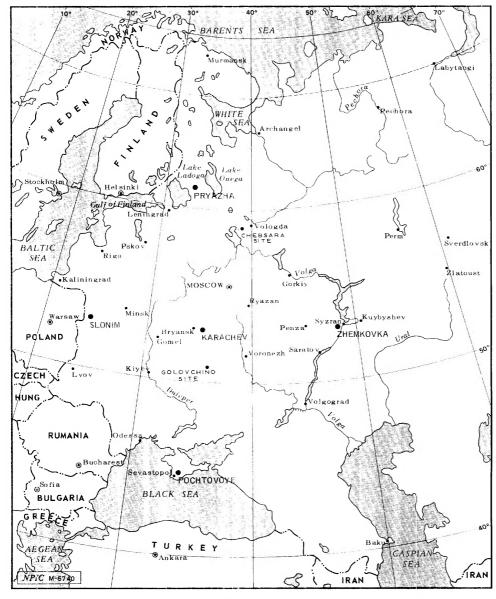


FIGURE 1. LOCATION MAP

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